



# PATENT SPECIFICATION

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## COMPLETE SPECIFICATION.

### Improvements in and relating to Electrically Heated Hair Combs.

I, LEO WILLIAMS, a British Subject, of 93, Moss Lane West, Moss Side, Manchester 15 in the County of Lancaster, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention has reference to electrically heated hair combs and has for its object to provide a device of the kind having a comb and an electrically heated element which can be used for singeing the hair thus eliminating cutting it.

An electrically heated hair comb according to this invention comprises a box-like container made of electricity insulating material having an open end over part of which there projects a comb secured on the container, within which container is an adjustable insulated member, having at one end terminals for electrical connections and at the other an electrically heated element behind the comb and which by adjusting the member carrying it within the container can be moved to and from the comb as desired.

The invention is more particularly set forth with reference to the accompanying drawings in which

Fig. 1 is a front elevation of the comb;  
Fig. 2 is a side elevation;  
Fig. 3 is a plan;  
Fig. 4 is a partial front elevation showing a modified construction;  
Fig. 5 is a side elevation of Fig. 4 and  
Fig. 6 is a separated side elevation showing the comb construction used in Figs. 4 and 5.

In the drawings, and considering first Figs. 1, 2 and 3 the container 7 is, as will be seen of box like shape and is made of electricity insulating material, the lower end is open and the top is closed by a detachable cover 8 provided with openings through which the electricity conducting wires 9 pass to a switch 10 easily manipulated by the user: it is found that a ten volt current is most suitable for use in this apparatus and consequently it will usually be necessary

to use a transformer which may be of any suitable kind.

Within the container 7 is an insulated member 11 which as shown is of box-like shape and has screws 12 in it passing through slots 13 in the container in which it is adjustable up and down within the limits of the slots. The insulated member 11 has terminal contacts 14 upon it to which wires 15 are connected, the wires also being connected to the switch 10. On the ends of the insulated member 11 and connected to the terminals 14 are contact members 16 conveniently pulled toward each other by a strong rubber band 17. Between the ends of these contact members 16 is mounted a heating element 18, the ends of the contact members being slightly recessed to afford a good hold for the heating element. The heating element itself comprises a porcelain or like tube having inside a wire resistance connected to metal ends which are engaged by, and held in the contact members.

On the front of the container 7 is a comb 19 the sides or edges of which at the end are protected by the sides of the container which extend below the heating elements 18 and the comb 19, these sides also completely enclosing the contact members so that the user cannot touch either them or the element.

In Figs. 4, 5 and 6 a modified form of comb 19 is shown which is made in three parts, these as shown in Fig. 6 more clearly comprise a mica piece 20, an asbestos piece 21 and a metal piece 22. In making the whole comb the three sheets of mica, asbestos and metal are laid over each other and secured together, for which purpose a cement may be used, and the teeth are then cut out.

It will be observed that the comb in Figs. 4, 5 and 6 is mounted higher on the front than is the comb in the other Figs. and it is also straight where it crosses the opening and is not bent near the end this arrangement having the advantage that it lies nearer to the heating element which is an advantage for some purpose.

When the device is in use the heating element is adjusted to or from the comb and after the current is switched on the device is drawn over the head with the combs engaging the hair which is directed on to the heating element and singed.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is :—

1. An electrically heated hair comb comprising a box-like container made of electrically insulating material having an open end over part of which there projects a comb secured on the container within which container is an adjustable insulated member, having at one end terminals for electrical connections and at the other an electrically heated element behind the comb and which by adjusting the member carrying it within the container can be moved to and from the comb as desired.

2. An electrically heated hair comb according to the preceding claim, wherein the electric heating element comprises a porcelain or like tube surrounding a metal

part having on the ends and outside the tube metal contact pieces held between electricity conducting arms carried on the adjustable insulated member within the container the heating element being held in place between the ends of the arms by resilient pressure.

3. An electrically heated hair comb according to either of the preceding claims having a comb made of metal having on its inside between the metal part and the heating element a layer of asbestos covered by a layer of mica.

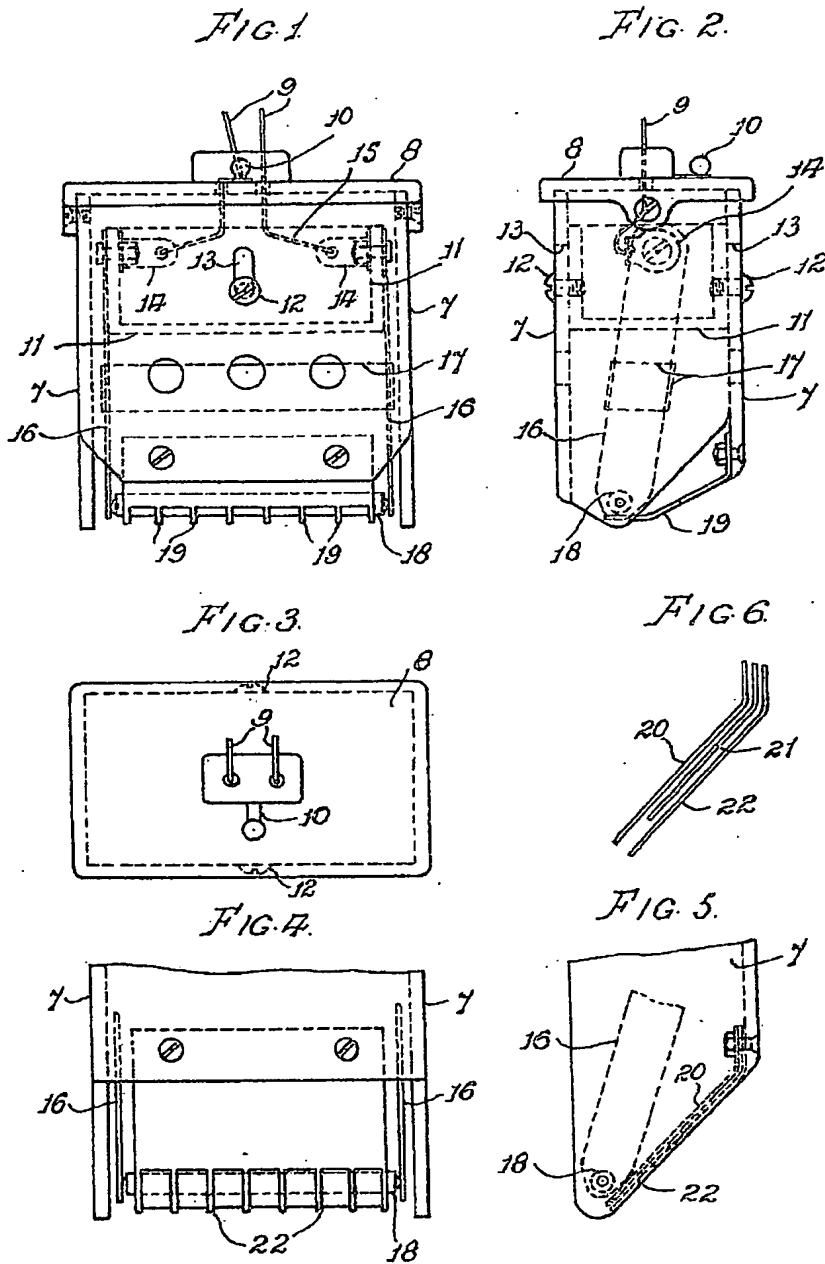
4. An electrically heated hair comb constructed and adapted to be used substantially as herein set forth and as shown in the accompanying drawings.

Dated this 28th day of July, 1949.

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